



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

JAN 10 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Mark Poling
Manager of Engineering and Environmental Compliance
ABC Coke
Post Office Box 10246
Birmingham, Alabama 35202

Dear Mr. Poling:

The purpose of this letter is to request information as part of a U.S. Environmental Protection Agency investigation to determine the compliance status of the ABC Coke plant located in Tarrant, Alabama, with the Clean Air Act (CAA), 42 U.S.C. § 7401, *et seq.*

Section 114(a) of the CAA, 42 U.S.C § 7414(a), authorizes the Administrator of EPA to require any person who owns or operates an emission source, whom the Administrator believes may have information necessary for the purposes of Section 114(a), or who is subject to any requirement of the CAA, to provide such information as the Administrator may reasonably require for the purpose of carrying out any provision of the CAA. This authority has been duly delegated to the Director of the Air, Pesticides, and Toxics Management Division, Region 4.

Therefore, pursuant to Section 114(a), ABC Coke is directed to respond to the enclosed Information Request within **forty-five (45) days** of receipt of this letter except for those items specifying a different response time. EPA, for good cause shown, may extend the deadline for responding to the request. You should respond to this Information Request as completely as possible. The responses must be delivered to EPA or postmarked no later than the above deadline. Send one complete copy of your response, including supporting documentation, to the following address:

Nikki Radford
North Air Enforcement Section
U.S. EPA, Region 4
Atlanta Federal Center
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

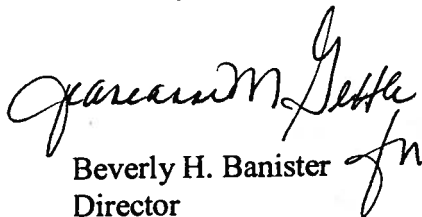
You are entitled to assert a claim of business confidentiality covering all or part of any required information except emission data, in the manner described at 40 C.F.R. §2.203(b). Information subject to a claim of business confidentiality will be made available to the public only in accordance with the procedures set forth at 40 C.F.R. Part 2, Subpart B. Unless a confidentiality claim is asserted at the time the required information is provided, EPA may make this information available to the public without further notice to you. Notwithstanding the above, the information you provide may be used by EPA in administrative, civil, and criminal proceedings.

Failure to comply with this requirement to provide information is a violation of Section 114 of the CAA and could result in an enforcement action for the recovery of civil penalties not to exceed \$37,500 per day, per violation, or for injunctive relief or both. Section 113, 42 U.S.C. §7413, of the CAA gives EPA the authority to seek criminal penalties from any person who knowingly makes any false statement, representation, or certification in any report required under the CAA.

This required submittal of information is not subject to the provisions of the Paperwork Reduction Act of 1980, 44 U.S.C. Chapter 35.

If you have any questions relating to this Information Request, you may consult with EPA prior to the above specified time. Questions should be directed Nikki Radford at (404) 562-9099 or by email at radford.nicole@epa.gov. Thank you for your cooperation in this matter.

Sincerely,


Beverly H. Banister
Director
Air, Pesticides, and Toxics
Management Division

Enclosures

cc: Corey Masuca (w/enclosures), Jefferson County Department of Health

INFORMATION REQUEST

Instructions

1. Please provide a separate narrative response to each and every Item set forth in this Information Request.
2. Precede each answer with the number of the Item to which it corresponds.
3. If information or documents not known or not available to you as of the date of submission of a response to this Information Request should later become known or available to you, you must supplement your response to EPA. Moreover, should you find, at any time after the submission of your response that any portion of the submitted information is false or misrepresents the truth, you must notify EPA of this fact as soon as possible and provide EPA with a corrected response.
4. For each document produced in response to this Information Request indicate on the document, or in some other reasonable manner, the number of the Item(s) to which it responds.
5. For each Item, identify each document consulted, examined, or referred to in the preparation of the responses or that contains information responsive to the question, and provide a true and correct copy of each such document if not provided in response to another specific Item.
6. If no information is available, submit a certification signed by a responsible company official stating such. Also, certify that all information provided is fully responsive.

DEFINITIONS

The following definitions shall apply to the following words as they appear in this Enclosure A:

1. The term "you" shall mean ABC Coke (ABC), the addressee of this Request, the addressee's officers, managers, employees, contractors, trustees, partners, successors, assigns, and agents.
2. The term "ABC Coke (ABC)" means, with respect to equipment, its facility located at 1 Railroad Avenue, Tarrant, Alabama, 35217.
3. The term "person" shall have the same definition as in Section 302(e) of the CAA: an individual, corporation, partnership, association, State, and any agency, department, or instrumentality of the United States, and any officer, agent or employee thereof.
4. The term "identify" means, with respect to a natural person, to set forth the person's name, present or last known business address and business telephone number, present or last known home address and home telephone number, and present or last known job title, position or business.
5. The term "identify" means, with respect to a corporation, partnership, business trust or other association or business entity (including a sole proprietorship), to set forth its full name, address, legal form (e.g., corporation, partnership, etc.), organization, if any, and a brief description of its business.
6. The term "identify" means, with respect to a document, to provide its customary business description, its date, its number, if any (invoice or purchase order number), the identity of the author, addressor, addressee and/or recipient, and the substance or the subject matter.
7. The terms "document" and "documents" shall mean any object that records, stores, or presents information, and includes writings, memoranda, records, or information of any kind, formal or informal, whether wholly or partially handwritten or typed, whether in computer format, memory, or storage device, or in hardcopy, including any form or format of these. If in computer format or memory, each such document shall be provided in translation to a form useable and readable by U.S. EPA, with all necessary documentation and support. All documents in hard copy should also include attachments to or enclosures with any document.
8. The terms "and" and "or" shall be construed either disjunctively or conjunctively as necessary to bring within the scope of this Information Request any information which might otherwise be construed to be outside its scope.

9. Words in the masculine shall be construed in the feminine, and vice versa, and words in the singular shall be construed in the plural, and vice versa, where appropriate in the context of a particular question or questions.
10. All terms not defined herein shall have their ordinary meaning, unless such terms are defined in the Clean Air Act or 40 C.F.R. Parts 60-63, in which case the statutory or regulatory definitions shall apply.

APPENDIX A

40 C.F.R. 61, Subpart FF – National Emission Standards For Benzene Waste Operation

- 1) Provide a plot plan indicating locations of all benzene waste streams and current benzene sample points.
- 2) Provide a piping and instrumentation diagram (P&ID) showing all 40 C.F.R. 61 Subpart FF Benzene Waste Operation NESHAP (BWON) waste streams as defined by 40 C.F.R. § 61.341 including, but not limited to, hard piped or otherwise enclosed waste streams. Also, include the following locations on the P&ID:
 - a) Locations sampled and/or identified by NEIC on their May 4 – 10, 2011, inspection:
 - 1) West dirty liquor storage tank
 - 2) Ammonia still
 - 3) East tar decanter
 - 4) Primary cooler sump
 - 5) Dirty water sump
 - 6) Naphthalene sump
 - 7) Liquor storage containment sump
 - 8) Nine drip pots located throughout the by-products facility
 - 9) Thickener tank
 - 10) Benzene, toluene, xylene (BTX) tank overflow
 - b) Process components (e.g., Exhauster, etc.) and storage tanks subject to 40 C.F.R. 61 Subpart L;
 - c) Current sample locations;
 - d) Drains in all process areas with benzene streams; and
 - e) Include an appropriate legend.
- 3) Determine the waste quantity in accordance with 40 C.F.R. § 61.355(b)(5)-(7), for the following locations:
 - a) Aqueous solution from the BTX tank decant overflow;
 - b) Tar sludge leaving the tar decanters into roll off bins;
 - c) Influent of the Ammonia Still;
 - d) Effluent of the Ammonia Still;
 - e) Material from two seal pots to the primary cooler sump;
 - f) Liquid waste leaving the east tar decanter into an open funnel;
 - g) Liquid waste leaving the west tar decanter into an open funnel;
 - h) Each of the nine drip pots located in the by-products facility;
 - i) Water from the water seal on the gas holder;
 - j) Drained material from the purifier into the naphthalene sump;
 - k) Liquor drains on the light oil platforms; and
 - l) Each point of generation as defined by 40 C.F.R. § 61.341, subject to 40 C.F.R. 61 Subpart L, not listed above.
- 4) For the waste streams identified in question 3, provide any documentation containing process knowledge used in determining waste quantity, flow rates, concentrations of benzene, and durations of waste generating streams.

- 5) ABC shall submit a benzene waste testing protocol for review and approval by U.S. EPA within 30 days of receiving this letter. The protocol shall include the following information:
 - a) The nature of the source operations;
 - b) All points that sampling will occur (Refer to Question 6);
 - c) A description of the location and how a representative sample will be taken (Diagram or photo shall be provided for each sample location);
 - d) Details of the analytical method(s) to be used for analyzing the waste samples;
 - e) Provide any deviations to the analysis method(s) chosen and the reason for the deviations; and
 - f) Date(s) for which the testing will occur.
- 6) ABC shall conduct benzene sampling at the following coke by-product facility locations within 60 days of receiving this letter:
 - a) Aqueous solution from the BTX tank decant overflow;
 - b) Tar sludge leaving the tar decanters into roll off bins;
 - c) Influent and effluent of the Ammonia Still;
 - d) Material from the North and South Exhauster seal pots to the primary cooler sump;
 - e) Liquid waste leaving the east tar decanter into an open funnel;
 - f) Liquid waste leaving the west tar decanter into an open funnel;
 - g) Each of the nine drip pots located in the by-products facility;
 - h) Water from the water seal on the gas holder;
 - i) Drained material from the purifier into the naphthalene sump;
 - j) Liquor drains on the light oil platforms; and
 - k) Each point of generation as defined by 40 C.F.R. § 61.341, subject to 40 C.F.R. 61 Subpart L, not listed above.
- 7) The benzene waste testing shall include the following:
 - a) Collect a minimum of three representative samples from each waste stream identified in Question 6. Where feasible, samples shall be taken from an enclosed pipe prior to the pipe being exposed to the atmosphere. Please identify the streams that ABC will not be feasibly able to sample from an enclosed pipe;
 - b) For samples taken from an enclosed pipe, use the procedure outlined in 40 C.F.R. § 61.355(c)(3)(ii); and
 - c) Each sample shall be analyzed using one of the methods provided for in 40 C.F.R. § 61.355(c)(3)(iv).
- 8) Upon completion of the testing, ABC shall submit a report that includes, but is not limited to, the following information:
 - a) Complete results with example calculations;
 - b) Raw field data;
 - c) Laboratory report, with signed chain-of-custody forms;
 - d) Calibration procedures and results;
 - e) Raw process and control equipment data, signed by responsible plant representative; and
 - f) The report shall be submitted 30 days after testing occurs unless for good cause shown, EPA extends this deadline.
- 9) Calculate the flow-weighted annual benzene concentration of all locations specified in 6a-6k using the sampling results per 40 C.F.R. § 61.355 (c)(3)(v).

- 10) Calculate the Total Annual Benzene quantity (TAB) in accordance with 40 C.F.R. § 61.342(a), using the sample analysis done in question 6 and flow-weighted annual benzene concentrations determined in question 9, also include any maintenance waste streams, turnaround waste streams, vacuum truck waste streams and any waste streams from tank water draws.
- 11) Describe the quantity and type of wastes generated by remediation activities conducted at the facility, such as the excavation of contaminated soil, pumping and treatment of groundwater, etc., also include the quantity of any remediation benzene waste managed by the facility from offsite.
- 12) Provide the benzene sample results from the May 5, 2011 – May 10, 2011 NEIC inspection.
- 13) Submit the results of all benzene testing conducted at each point of generation at ABC's Coke By-Product Recovery Plant, including the results of any other species that were analyzed during the benzene testing.
- 14) Provide, in accordance with 40 C.F.R. § 61.356(b)(1), the records and documentation used to determine the following information for each waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity.
- 15) Identify all sour water strippers as defined per 40 C.F.R. § 61.341
 - a) Identify any unit that is designed and operated to remove ammonia or sulfur compounds from sour water streams;
 - b) Identify any unit that has the sour water streams transferred to the stripper through hard piping or other enclosed system; and
 - c) Identify any unit that is operated in such a manner that the off-gases are sent to a sulfur unit, processing unit, incinerator, flare, or other combustion device.
- 16) On a plot plan of the facility, identify any sour water stream as defined per 40 C.F.R. § 61.341:
 - a) Identify any wastewater streams that contain ammonia or sulfur compounds (usually hydrogen sulfide) at concentrations of 10 ppm by weight or more;
 - b) Identify any wastewater streams that are generated from separation of water from a feed stock, intermediate or product that contained ammonia or sulfur compounds; and
 - c) Identify waste water streams that require treatment to remove the ammonia or sulfur compounds.
- 17) If you do have sour water and sour water stripper unit(s), explain how you determine the total annual benzene quantity, benzene quantity entering the stripper, or benzene quantity leaving the stripper.
- 18) Identify each waste stream including any storm water streams that are routed to a sour water stripper, and for each such waste stream provide the following information: a flow diagram, source of waste stream, flowrate (gallons per day), and concentrations of benzene, hydrogen sulfide, and ammonia in each waste stream.

- 19) Provide the Annual Report from 2007 until the present as required in Title V Permit No. 4-07-0001-02 Emissions Unit Number 005 (Coke By-Product), Section 5 Recordkeeping and Reporting Requirements, No.13 Annual Report Requirement A-H.
- 20) Provide the basis or supporting data for the annual waste quantity, range of benzene concentrations, the annual average flow weighted benzene concentrations, and the annual benzene quantity reported for the point of waste generation for the Annual Report Requirement required by Title V Permit No. 4-07-0001-02 Emissions Unit Number 005 (Coke By-Product), Section 5 Recordkeeping and Reporting Requirements, No.13 Annual Report Requirement H.
- 21) Provide all documentation from January 2007 until the present of benzene sampling analysis results and quality assurance plans related to such sampling.
- 22) Provide documentation for each tank, surface impoundment, individual drain system, oil-water separator, treatment process, closed-vent system and control device, subject to 40 C.F.R. Part 61 Subpart FF, showing how the facility complied with the standard. Include each vent system that contains a bypass line away from the control device. For example, for each fixed roof tank, the cover and all openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable emissions, shall have a gasketed and latched cover (e.g., air-supported structure or rigid cover) and closed-vent system that routes all organic vapors vented from the surface impoundment to a control device. Provide all manufacturers' design specifications, including detectable emission limits, maximum capacity throughput, flow rate, temperature, pressure, pressure monitoring system, fuel consumption, etc., where applicable. Also include specific monitoring schedules for each.
- 23) For the National Emission Standards for Hazardous Air Pollutants 40 C.F.R. 61 Subpart FF Record Keeping and Reporting Requirements provide:
- a) A simplified process flow diagram that will identify all NESHAP Subpart FF wastewater streams including all controls as required by 40 C.F.R. § 61.356(b);
 - b) All documentation and analysis of all offsite waste shipment for treatment per 40 C.F.R. § 61.356(c) from January 2007 until the present;
 - c) All documentation of treatment processes per 40 C.F.R. § 61.356(e) from January 2007 until present;
 - d) All documentation of closed vent systems and control devices per 40 C.F.R. § 61.356(f) from January 2007 until present;
 - e) All documentation of visual inspections conducted per 40 C.F.R. § 61.356(g) from January 2007 until present;
 - f) All documentation of tests for no detectable emissions per 40 C.F.R. § 61.356(h) from January 2007 until present;
 - g) The initial NESHAP Subpart FF report filed per 40 C.F.R. § 61.357(a); and

h) All annual reports as required by 40 C.F.R. § 61.357 (c) from January 2007 until present.

Leak Detection and Repair - 40 C.F.R. 61, Subpart L, 40 C.F.R. 61, Subpart V, and Jefferson County Department of Health, Air Pollution Control Rules and Regulations Section 8.26 Leaks from Coke By-Products Recovery Plant Equipment

- 24) Provide the annual coke production at the facility from 2007 until the present. Indicate the amount of foundry and furnace coke produced in tons.
- 25) Provide a narrative detailing the LDAR monitoring at the facility. Include a description of what is done after a leak is detected, and who the responsible parties are for monitoring and repairing any leaks including any contractors.
- 26) Provide a list of all the components by process vessel, storage tank, light oil sumps, tar-intercepting sumps, etc. subject to the facility's LDAR program. Indicate whether or not each component is subject to 40 C.F.R. 61 Subpart L, 40 C.F.R. 61 Subpart V or Jefferson County Department of Health, Air Pollution Control Rules and Regulations Section 8.26 Leaks from Coke By-Products Recovery Plant Equipment, and indicate the monitoring schedule(s) for each component.
- 27) Provide an annual list of all leaking components from January 2007 until the present. For each component on the list, include the leak rate, the date the leak was initially detected, the date the first repair was attempted, the date the final repair was made, and the dates the components were monitored in the two consecutive months following the repair of the leak.
- 28) Please provide copies of any work orders or other paper work generated in calendar years 2010 and 2011, used to request, document, or otherwise handle component repairs.
- 29) Provide copies of the Leak Detection and Repair monitoring log from calendar years 2010 and 2011 as required by Jefferson County Department of Health, Air Pollution Control Rules and Regulations Section 8.26.10.
- 30) Provide the delay of repair (DOR) list annually from January 2007 until the present. Include an explanation as to why the component was placed on the DOR list and the date the repair was made.
- 31) Provide the list of Difficult to Monitor (DTM) components, along with the DTM monitoring records from January 2007 until the present.
- 32) Provide the field records for monitoring and visual inspections from January 2007 to the present as per 40 C.F.R. § 61.132(b).
- 33) Provide records of the annual control system maintenance inspection as per 40 C.F.R. § 61.132(c) from January 2007 to the present.
- 34) Provide an explanation as to how components in benzene service are distinguished from other pieces of equipment in benzene service as per 40 C.F.R. § 61.135(c).
- 35) In accordance with 40 C.F.R. § 61.138(f) provide the semiannual reports of monitoring of control system and visual inspections from January 2007 to the present.

- 36) For the Leak Detection and Repair (LDAR) program, provide an electronic copy, preferably on a compact disc(s), of all of the extensive electronic data that is maintained in the LDAR database, which is used to manage the LDAR program for, but not limited to, 40 C.F.R. Part 61 Subpart L, National Emissions Standards for Benzene Emissions from Coke By-Product Recovery Plants, 40 C.F.R. Part 61, Subpart V, National Emissions Standards for Equipment Leaks (Fugitive Emission Sources), and Jefferson County Department of Health, Air Pollution Control Rules and Regulations Section 8.26 Leaks from Coke By-Products Recovery Plant Equipment, from January 2007 until the present. If your complete responses to questions 26, 27, 28, 30, or 31 in this Information Request are contained in the electronic database, then providing the electronic database will address the response requirements for those questions.
- 37) Provide in editable electronic format, on compact disc or other electronic storage media, for each technician who performed LDAR monitoring at the facility from January 2007 to the present, a listing of the technician's name and the technician's LDAR operator identification number used in the LDAR records management database.
- 38) Provide in accordance with 40 C.F.R. § 61.138(e)(1) the statement to the Administrator indicating that the requirements of 40 C.F.R. 61, subpart L and 40 C.F.R. 61, subpart V have been implemented.